#### PATENT COOPERATION TREATY

### **PCT**

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220					
E-2525/04	as well as, where applicable, item 5 below.						
International application No.							
PCT/EP2004/053217	7/EP2004/053217 01/12/2004 05/12/2003						
Applicant							
ANGAL DO CROWN THE	ייי אינערדעע						
ANSALDO SEGNALAMENTO FERRO	OVIARIO S.P.A.						
This International Search Report has been according to Article 18. A copy is being tra		hing Authority and is transmitted to the applicant					
This International Search Report consists	of a total of shee	its.					
X It is also accompanied by	a copy of each prior art document cite	ed in this report.					
Basis of the report							
	international search was carried out o less otherwise indicated under this Iter	on the basis of the international application in the m.					
The international this Authority (Ru		of a translation of the international application furnished to					
b. With regard to any <b>nucle</b>	otide and/or amino acid sequence c	disclosed in the international application, see Box No. I.					
2. Certain claims were fou	and unsearchable (See Box II).						
3. Unity of invention is lac	king (see Box III).						
4. With regard to the <b>title</b> ,							
	ubmitted by the applicant.						
X the text has been establis	shed by this Authority to read as follow	<i>r</i> s:					
RAILWAY BEACON AND REI	LATED PRODUCTION METHOL	)					
	·						
5. With regard to the abstract,							
	ubmitted by the applicant.						
the text has been established	shed, according to Rule 38.2(b), by thi	is Authority as it appears in Box No. IV. The applicant onal search report, submit comments to this Authority.					
may, within one month if	and sale of maining of this internati	22. 322.37. Toport, Gubrint Comments to this Authority.					
6. With regard to the drawings,							
a. the figure of the <b>drawings</b> to be	published with the abstract is Figure N	No. <u>1</u>					
X as suggested by	• •						
	nis Authority, because the applicant fai						
	nis Authority, because this figure better the published with the abstract	r characterizes the invention.					
b none of the figures is to t	be published with the abstract.						

#### INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/053217

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B61L3/12

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{G06K} & \mbox{G07C} & \mbox{G01S} & \mbox{B61L} \\ \end{array}$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 163 324 A (* ELECTROMATIC) 19 February 1986 (1986-02-19) abstract	1-12
A	WO 00/43952 A (INTERMEC IP CORP) 27 July 2000 (2000-07-27) figure 4	1-12
<b>A</b>	EP 0 996 085 A (A. & J. STOECKLI AG) 26 April 2000 (2000-04-26) abstract; figures 4,5	1-12
	-/	

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
<ul> <li>Special categories of cited documents:</li> <li>'A' document defining the general state of the art which is not considered to be of particular relevance</li> <li>'E' earlier document but published on or after the international filing date</li> <li>'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>'O' document referring to an oral disclosure, use, exhibition or other means</li> <li>'P' document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
16 February 2005	23/02/2005
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Janhsen, A

1

#### INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/053217

		PC17EF200	4/053217
C.(Continu	etion) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	<del></del>	Relevant to claim No.
A	REINDL L ET AL: "Hybrid SAW-device for a European train control system" ULTRASONICS SYMPOSIUM, 1994. PROCEEDINGS., 1994 IEEE CANNES, FRANCE 1-4 NOV. 1994, NEW YORK, NY, USA,IEEE, US, vol. 1, 1 November 1994 (1994-11-01), pages 175-179, XP010139561 ISBN: 0-7803-2012-3 the whole document		1-12
A	US 2003/076662 A1 (MIEHLING MARTIN) 24 April 2003 (2003-04-24) abstract; figure la		1-12
P,A	EP 1 467 315 A (EASTMAN KODAK COMPANY) 13 October 2004 (2004-10-13) abstract; figures 13-16		1-12
	·		
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#### INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/053217

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
GB 2163324	Α	19-02-1986	AU GB ZA	4619785 A 2208058 A ,B 8506178 A	20-02-1986 15-02-1989 30-04-1986
WO 0043952	Α	27-07-2000	WO	0043952 A1	27-07-2000
EP 0996085	Α	26-04-2000	EP	0996085 A1	26-04-2000
US 2003076662	A1	24-04-2003	EP EP AT AU DE ES JP US	1052594 A1 1052595 A1 205951 T 3022600 A 59900275 D1 2162714 T3 2001024550 A 6687131 B1	15-11-2000 15-11-2000 15-10-2001 16-11-2000 25-10-2001 01-01-2002 26-01-2001 03-02-2004
EP 1467315	A	13-10-2004	US EP JP	2004203185 A1 1467315 A2 2004318846 A	14-10-2004 13-10-2004 11-11-2004

#### PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORITY PCT To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below Priority date (day/month/year) International application No. International filing date (day/month/year) 05.12.2003 PCT/EP2004/053217 01.12.2004 International Patent Classification (IPC) or both national classification and IPC B61L3/12 Applicant ANSALDO SEGNALAMENTO FERROVIARIO S.P.A. 1. This opinion contains indications relating to the following items: Box No. 1 Basis of the opinion ☐ Box No. II **Priority** Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. III ☐ Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement ☑ Box No. Vi Certain documents cited ☐ Box No. VII Certain defects in the international application ☐ Box No. VIII Certain observations on the international application **FURTHER ACTION** 2. If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer** 

Janhsen, A

Telephone No. +49 89 2399-2433



10/581383

# IAP9 Rec'd PCT/PTO 02 JUN 2006 International application No. PCT/EP2004/053217

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

	Box No. I Basis of the opinion					
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.					
	□ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).					
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	a. type of material:					
	□ a sequence listing					
	□ table(s) related to the sequence listing					
	b. format of material:					
	☐ in written format					
	☐ in computer readable form					
	c. time of filing/furnishing:					
	☐ contained in the international application as filed.					
	☐ filed together with the international application in computer readable form.					
	☐ furnished subsequently to this Authority for the purposes of search.					
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
4.	Additional comments:					

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/053217

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-12

No:

Claims

Inventive step (IS)

Yes: Claims

1-12

No: Claims

Industrial applicability (IA)

Yes: Claims

1-12

No: Claims

2. Citations and explanations

see separate sheet

#### Box No. VI Certain documents cited

Certain published documents (Rules 43bis.1 and 70.10)
 and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2004/053217

#### With respect to item V

1. Reference is made to the following document, cited in the search report:

D1: GB2 163 324 A1, 19 February 1986

- 2.1 D1 discloses a railway beacon according to the preamble of claims 1 and 8 (see column 1, lines 5-27 and figure 3.
- 2.2 The subject-matter of independent claims 1 and 8 differs from the railway beacon of D1 merely in that the circuitry and antennae are placed in seats of the substrate and are covered by a resin.
- 2.3 The subject-matter of claims 1 and 8 solves the technical problem of improving the rigidness and the manufacturing process of such beacons.
- 2.4 The solution, as given by the subject-matter of claims 1 and 8, is neither disclosed nor suggested by the available prior art. The remaining A-documents cited in the search report merely disclose the background technology. The subject-matter of claims 1 and 8 therefore meets the requirements of Art. 33 (2)-(4) PCT.
- 2.5 Claims 2-7 and 9-12 are dependent claims. Consequently, the subject-matter of said claims also meets the requirements of Art. 33 (2)-(4) PCT.